

Sequence Listing

<110> Universitaet Leipzig

<120> Method and Means for the Determination of Defined States or Modifications in the Mucus of the Uterus or in the Epithelium of Other Organs

<130> 401P07PCT-US

<140> 10/559,406

<141> 2006-05-30

<150> PCT/DE04/01210

<151> 2004-06-04

<150> DE10325639.3

<151> 2003-06-06

<150> DE10325638.5

<151> 2003-06-06

<160> 15

<210> 1

<211> 15

<212> PRT

<213> artificial sequence

<220>

<223> Epitope e-beta-9 (e-beta-hCG)

<400> 1

Thr	Cys	Asp	Asp	Pro	Arg	Phe	Gln	Ala	Ser	Ser	Ser	Ser	Lys	Ala
1				5					10					15

<210> 2

<211> 15

<212> PRT

<213> artificial sequence

<220>

<223> Epitope beta-9 (t?hCG)

<400> 2

Thr	Cys	Asp	Asp	Pro	Arg	Phe	Gln	Asp	Ser	Ser	Ser	Ser	Lys	Ala
1				5					10					15

<210> 3

<211> 15

<212> PRT

<213> artificial sequence

<220>

<223> Epitope e-beta-1 (e-beta-hCG)

<400> 3

Ser	Arg	Glu	Met	Leu	Arg	Pro	Arg	Cys	Arg	Pro	Ile	Asn	Ala	Thr
1				5					10					15

<210> 4
 <211> 15
 <212> PPT
 <213> artificial sequence
 <220>
 <223> Epitope beta-1 (t-beta-hCG)
 <400> 4

Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro Ile Asn Ala Thr
 1 5 10 15

<210> 5
 <211> 861
 <212> DNA
 <213> homo sapiens
 <220>
 <223> beta-hCG beta-7 cDNA-Sequenz
 <400> 5

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actgagtctc agaggtcact tcaccgtggt ctccgcctca tccttggcgc tagaccactg 180
aggggagagg actgggggtgc tccgctgagc cactcctgtg cctccctggc cttgtctact 240
tctcgcccc cgaagggtta gtgtccagct cactccagca tcctacaacc tcctgggtggc 300
cttgacgccc ccacaaaacc gaggtataaa gccaggtaca ccaggcaggg gacgcaccaa 360
ggatggagat gttccagggg ctgctgctgt tgctgctgct gagcatgggc gggacatggg 420
catccaagga gatgcttcgg ccacgggtgc gccccatcaa tgccaccctg gctgtggaga 480
aggagggctg ccccggtgtg atcacgttca acaccaccat ctgtgcgggc tactgcccc 540
ccatgacccg cgtgctgcag ggggtcctgc cggccctgcc tcagggtggtg tgcaactacc 600

gcatgtgtgc cttegagtc atccgggtcc ctgggtgccc gcgcggcgtg aaccccggtg 660
tctcctaacc cgtggtctct agctgtcaat gtgcactctg ccgcgcgacg accactgact 720
gcggggggtc caaggaccac ccttgacct gtgatgaccc ccgcttccag gcctcctctt 780
cctcaaagga cctccccc agccttccaa gtccatcccg actccgggg ccctcggaca 840
ccccgatcct ccacacaata a

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<210> 6
 <211> 861
 <212> DNA
 <213> homo sapiens
 <220>
 <223> beta-hCG beta-6 cDNA-Sequenz
 <400> 6

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actgagtctc agaggtcact tcaccgtggt ctccgcctca tccttggcgc tagaccactg 180
aggggagagg actgggggtgc tccgctgagc cactcctgtg cctccctggc cttgtctact 240
tctcgcccc cgaagggtta gtgtccagct cactccagca tcctacaacc tcctgggtggc 300
cttgacgccc ccacaaaacc gaggtatgaa gccaggtaca ccaggcaggg gacgcaccaa 360
ggatggagat gttccagggg ctgctgctgt tgctgctgct gagcatgggc gggacatggg 420
catccaagga gccacttcgg ccacgggtgc gccccatcaa tgccaccctg gctgtggaga 480
aggagggctg ccccggtgtg atcacgttca acaccaccat ctgtgcgggc tactgcccc 540
ccatgacccg cgtgctgcag ggggtcctgc cggccctgcc tcagggtggtg tgcaactacc 600

gcatgtgtgc cttegagtc atccgggtcc ctgggtgccc gcgcggcgtg aaccccggtg 660
tctcctaacc cgtggtctct agctgtcaat gtgcactctg ccgcgcgacg accactgact 720
gcggggggtc caaggaccac ccttgacct gtgatgaccc ccgcttccag gcctcctctt 780
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<210> 7
 <211> 861
 <212> DNA
 <213> homo sapiens
 <220>
 <223> e-beta-hCG ("endo" beta-6e) cDNA-Sequenz
 <400> 7

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agcacttttc tggggtcacg gcctcctcct ggttcccaag accccaccat aggcagaggc 60
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actgagtctc agagggtcact tcaccgtggt ctccgcctca tccttggygc tagaccactg 180
aggggagagg actgggggtgc tccgctgagc cactcctgtg cctccctggc cttgtctact 240
tctcgccccc cgaagggtta gtgtcsagct cactccagca tctacaacc tcttggtggc 300
cttgmcgccc ccacaamccc gaggtatraa gccaggtaaa ccaggcaggg gacgcaccas 360
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aggagggctg ccccggtgtg atcacogtca acaccaccat ctgtgcccgc tactgcccc 540
ccatgacccg cgtgctgcag ggggtcctgc cggccctgcc tcaggtggtg tgcaactacc 600

gcatgtgtgc cttcgagtc atccggctcc ctggctgccc ggcgggcgtg aaccccggtg 660
tctcctacgc cgtggtctc agctgtcaat gtgcactctg ccgcgcagc accactgact 720
gggggggtcc caaggaccac ccttgacct gtgatgacc ccgcttcag gcctcctctt 780
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ccccgatcct ccacaataa a
  
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<210> 8
 <211> 165
 <212> PRT
 <213> homo sapiens
 <220>
 <223> t-beta-hCG beta-5,beta-8,beta-3(prehormone)
 <400> 8

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Met Glu Met Phe Gln Gly Leu Leu Leu Leu Leu Leu Ser Met Gly
-20          -15          -10          -5

Gly Thr Trp Ala Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro Ile
    -1  1          5          10

Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr
    15          20          25

Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val
    30          35          40

Gly Val Leu Gln Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg
    45          50          55          60

Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val
    65          70          75

Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu
    80          85          90

Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu
    95          100         105

Thr Cys Asp Asp Pro Arg Phe Gln Asp Ser Ser Ser Ser Lys Ala Pro
  
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110		115		120											
Pro	Pro	Ser	Leu	Pro	Ser	Pro	Ser	Arg	Leu	Pro	Gly	Pro	Ser	Asp	Thr
125					130					135					140

Pro Ile Leu Pro Gln
145

<210> 9
 <211> 165
 <212> PRT
 <213> homo sapiens
 <220>
 <223> beta-hCG beta-7 (prehormone)
 <400> 9

Met	Glu	Met	Phe	Gln	Gly	Leu	Leu	Leu	Leu	Leu	Leu	Leu	Ser	Met	Gly
-20					-15					-10					-5

Gly	Thr	Trp	Ala	Ser	Arg	Glu	Met	Leu	Arg	Pro	Arg	Cys	Arg	Pro	Ile
			-1	1				5					10		

Asn	Ala	Thr	Leu	Ala	Val	Glu	Lys	Glu	Gly	Cys	Pro	Val	Cys	Ile	Thr
	15						20					25			

Val	Asn	Thr	Thr	Ile	Cys	Ala	Gly	Tyr	Cys	Pro	Thr	Met	Met	Arg	Val
30						35					40				

Gly	Val	Leu	Gln	Leu	Pro	Ala	Leu	Pro	Gln	Val	Val	Cys	Asn	Tyr	Arg
45					50					55					60

Asp	Val	Arg	Phe	Glu	Ser	Ile	Arg	Leu	Pro	Gly	Cys	Pro	Arg	Gly	Val
				65					70					75	

Asn	Pro	Val	Val	Ser	Tyr	Ala	Val	Ala	Leu	Ser	Cys	Gln	Cys	Ala	Leu
		90						85					90		

Cys	Arg	Arg	Ser	Thr	Thr	Asp	Cys	Gly	Gly	Pro	Lys	Asp	His	Pro	Leu
	95						100					105			

Thr	Cys	Asp	Asp	Pro	Arg	Phe	Gln	Ala	Ser	Ser	Ser	Ser	Lys	Ala	Pro
	110					115						120			

Pro	Pro	Ser	Leu	Pro	Ser	Pro	Ser	Arg	Leu	Pro	Gly	Pro	Ser	Asp	Thr
125					130					135					140

Pro Ile Leu Pro Gln
145

<210> 10
 <211> 165
 <212> PRT
 <213> homo sapiens
 <220>
 <223> e-beta-hCG beta-6e (with Arg in Pos 2) (prehormone)
 <400> 10

Met Glu Met Phe Gln Gly Leu Leu Leu Leu Leu Leu Leu Ser Met Gly
 -20 -15 -10 -5

Gly Thr Trp Ala Ser Arg Glu Met Leu Arg Pro Arg Cys Arg Pro Ile
 -1 1 5 10

Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr
 15 20 25

Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val
 30 35 40

Gly Val Leu Gln Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg
 45 50 55 60

Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val
 65 70 75

Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu
 80 85 90

Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu
 95 100 105

Thr Cys Asp Asp Pro Arg Phe Gln Ala Ser Ser Ser Ser Lys Ala Pro
 110 115 120

Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr
 125 130 135 140

Pro Ile Leu Pro Gln
 145

<210> 11
 <211> 141
 <212> FRT
 <213> homo sapiens
 >220
 <223> beta-LH beta-4 (prehormone)
 <400> 11

Met Glu Met Leu Gln Gly Leu Leu Leu Leu Leu Leu Leu Ser Met Gly
 -20 -15 -10 -5

Gly Ala Trp Ala Ser Arg Glu Pro Leu Arg Pro Trp Cys His Pro Ile
 -1 +1 5 10

Asn Ala Ile Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr
 15 20 25

Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val
 30 35 40

Leu	Gln	Ala	Val	Leu	Pro	Pro	Leu	Pro	Gln	Val	Val	Cys	Thr	Tyr	Arg
45					50					55					60
Asp	Val	Arg	Phe	Glu	Ser	Ile	Arg	Leu	Pro	Gly	Cys	Pro	Arg	Gly	Val
			65						70					75	
Asp	Pro	Val	Val	Ser	Phe	Pro	Val	Ala	Leu	Ser	Cys	Arg	Cys	Ala	Pro
			80					85					90		
Cys	Arg	Arg	Ser	Thr	Ser	Asp	Cys	Gly	Gly	Pro	Lys	Asp	His	Pro	Leu
		95					100					105			
Thr	Cys	Asp	His	Pro	Glu	Leu	Ser	Gly	Leu	Leu	Phe	Leu			
	110					115					120				

<210> 12
 <211> 10
 <212> PRT
 <213> artificial sequence
 <220>
 <223> Peptide P1 (e-beta-hCG)
 <400> 12

Cys	Asp	Asp	Pro	Arg	Phe	Gln	Ala	Ser	Ser
1			5						10

<210> 13
 <211> 10
 <212> PRT
 <213> artificial sequence
 <220>
 <223> Peptide K1 (t-beta-hCG)
 <400> 13

Cys	Asp	Asp	Pro	Arg	Phe	Gln	Asp	Ser	Ser
1			5						10

<210> 14
 <211> 11
 <212> PRT
 <213> artificial sequence
 <220>
 <223> Peptide P2 (e-beta-hCG)
 <400> 14

Ser	Arg	Glu	Met	Leu	Arg	Pro	Arg	Cys	Arg	Pro
1			5						10	

<210> 15
 <211> 11
 <212> PRT
 <213> artificial sequence
 <220>
 <223> Peptide K2 (t-beta-hCG)
 <400> 15

Ser	Lys	Glu	Pro	Leu	Arg	Pro	Arg	Cys	Arg	Pro
1			5						10	